

SECONDARY ALUMINUM INSPECTION CHECKLIST
40 CFR 63, Subpart RRR
Major Sources

Facility Name: _____ AIRS ID: _____
Owner/Operator: _____
Personnel Interviewed: _____ Phone #: _____
Mailing Address: _____
City: _____ State: _____ Zip: _____
Inspector: _____

Does the source have any of the following affected facilities:

	Existing	New	Date installed
Aluminum scrap shredder	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___
Thermal chip dryer	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___
Scrap dryer/delacquering kiln/decoating kiln	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___
Group 2 furnace	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___
Sweat furnace	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___
Dross-only furnace	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___
Rotary dross cooler	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___
Secondary aluminum processing unit (SAPU)	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___

1. Initial Notification Date ___/___/___
2. Compliance Certification Date ___/___/___

3. ALUMINUM SCRAP SHREDDER	Yes	No
a. Have visible emissions (VE) < 10 % if continuous opacity monitor (COM) or VE monitoring. §63.1505(b)(2)		
b. Emissions controlled by a fabric filter		
either		
i. Bag leak detection system.		
(1) Initiate corrective action within 1-hour of a bag leak detection system alarm and complete the corrective action procedures in accordance with the OM&M plan. §63.1506(e)(1)(i).		
(2) Assure alarm does not sound more than 5 % of the operating time during a 6-month block reporting period. §63.1506(e)(1)(ii)		
or		
ii. Continuous opacity monitor.		
(1) Initiate corrective action within 1-hr of any 6-min average reading > 5 % opacity and complete corrective action in accordance with the OM&M plan. §63.1506(e)(2)		
or		
iii. Conduct VE observations.		
(1) Perform a VE test for each aluminum scrap shredder using a certified observer at least once a day according to Method 9 (40 CFR part 60, App. A). (Five 6-min. observations in 30-min.) §63.1510(f)(3)(i)		
(2) Must initiate corrective action within 1-hour of any observation VE and complete corrective action in accordance with the OM&M plan. §63.1506(e)(3)		
(3) Record the results of each test. §63.1510(f)(3)(ii)		
and		
c. Performance Test Date: ___/___/___		

i. Emissions not in excess of 0.023 g of PM/dscm (0.01 gr/dscf) §63.1505(b)(1)		
4. THERMAL CHIP DRYER at a secondary aluminum production facility.	Yes	No
a. Controlled by an afterburner.		
i. Three hour block average temperature at or above limit set by performance test. §63.1506(f)(1)		
ii. Operated in accordance with OM&M Plan. §63.1506(f)(2)		
iii. Use only unpainted chips. §63.1506 (f)(3)		
iv. See afterburner table.		
b. Record the type of materials charged to the unit for each operating cycle or time period used in the performance test. §63.1510(k)(1)		
c. Certify compliance with operational standard for charge materials in §63.1506(f)(3) for each month reporting period. Each certification must contain the information in §63.1516(b)(2)(i)(2).		
d. Performance Test Date: ___/___/___		
e. Emissions not in excess of 0.40 kg of THC, as propane, per Mg (0.80 lb of THC, as propane, per ton) of feed/charge. §63.1505(c)(1)		
f. Emissions not in excess of 2.50 mg of D/F TEQ per Mg (3.5×10^{-5} gr/ton) of feed/charge from a thermal chip dryer. §63.1505(c)(2)		
5. SCRAP DRYER/DELACQUERING KILN/DECOATING KILN		
either		
a. Standard Option §63.1505(d) Performance Test Date: ___/___/___		
i. Emissions not in excess of 0.03 kg of THC, as propane, per Mg (0.06 lb of THC, as propane, per ton) of feed/charge. §63.1505(d)(1)(i)		
ii. Emissions not in excess of 0.04 kg of PM per Mg (0.08 lb/ton) of feed/charge. §63.1505(d)(1)(ii)		
iii. Emissions not in excess of 0.25 mg of D/F TEQ per Mg (3.5×10^{-6} gr of D/F TEQ per ton) of feed/ charge. §63.1505(d)(1)(iii)		
iv. Must not discharge or cause to be discharged to the atmosphere VE in excess of 10 % opacity from any PM add-on air pollution control device if a COM is chosen as the monitoring option. §63.1505(d)(2)		
or		
b. Alternative emission limit. If a kiln is equipped with an afterburner having a design residence time of at least 1 second and is operated at a temperature of at least 750°C (1400°F) at all times. §63.1505(e) Temp: _____° _____ Residence time: _____ Sec		
i. Emissions not in excess of 0.10 kg of THC, as propane, per Mg (0.20 lb of THC, as propane, per ton) of feed/charge. §63.1505(e)(1)(i)		
ii. Emissions in excess of 0.15 kg of PM per Mg (0.30 lb/ton) of feed/charge. §63.1505(e)(1)(ii)		
iii. Emissions not in excess of 5.0 mg of D/F TEQ per Mg (7.0×10^{-5} gr of D/F TEQ per ton) of feed/charge. §63.1505(e)(1)(iii)		
iv. Emissions not in excess of 0.75 kg of HCl per Mg (1.50 lb per ton) of feed/charge. §63.1505(e)(1)(iv)		
v. VE <10% for a major source if COM or VE monitoring is chosen as the monitoring option. §63.1505(e)(2)		
if		
c. Controlled by an afterburner and lime-injected fabric filter. §63.1506(g)(1)		
i. Three hour average temperature at or above limit set by performance test. §63.1506(g)(1)(i)		

ii. The monitoring system must record the temperature in 15-minute block averages and calculate and record the average temperature for each 3-hour block period. §63.1510(h)(2)(i)		
iii. The recorder response range must include zero and 1.5 times the average temperature established according to the requirements in § 63.1512(n). §63.1510(h)(2)(ii)		
iv. The reference method must be a NIST calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Administrator. §63.1510(h)(2)(iii)		
v. Operated in accordance with OM&M Plan §63.1506(g)(1)(ii)		
vi. See afterburner table.		

if

d. Bag leak detection system. §63.1506(g)(2)		
i. Initiate corrective action within 1-hour of a bag leak detection system alarm and complete the corrective action procedures in accordance with the OM&M plan. §63.1506(g)(2)(i)		
ii. Assure alarm does not sound > 5% of the operating time during a 6-month block reporting period. §63.1506(g)(2)(ii)		
iii. See bag leak detection table.		

if

e. Continuous opacity monitor §63.1517(b) & §63.10(b)		
i. Record 6 min averages §63.1506(g)(3)		
ii. Initiate corrective action within 1-hour of any 6-minute average reading of 5 % or more opacity accordance with the OM&M plan. §63.1506(g)(3)		
iii. See continuous opacity monitor table.		

if

f. Fabric filter, maintain the 3-hour block average inlet temperature at or below the average temperature established during the performance test, plus 14 °C. §63.1506(g)(4).		
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if

g. Continuous lime injection device, maintain free-flowing lime in the hopper to the feed device at all times and maintain the lime feeder setting at the same level established during the performance test. §63.1506(g)(5).		
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either

i. Inspecting each feed hopper or silo at least once each 8-hour period and recording the results. If lime is not free-flowing during any 8-hour periods, the owner or operator must increase the frequency of inspections to at least once every 4-hour period for the next 3 days. The owner or operator may return to inspections at least once every 8 hour period if corrective action results in no further blockages of lime during the 3-day period. § 63-1510(i)(1)(i)		
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or

ii. Subject to the approval of the permitting agency, installing, operating and maintaining a load cell, carrier gas/lime flow indicator, carrier gas pressure drop measurement system or other system to confirm that lime is freeflowing. If lime is found not to be freeflowing, the owner or operator must promptly initiate and complete corrective action, §63.1510(i)(1)(ii)		
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or

iii. Subject to the approval of the permitting agency, installing, operating and maintaining a device to monitor the concentration of HCl at the outlet of the fabric filter. If an increase in the concentration of HCl indicates that the lime is not free-flowing, the owner or operator must promptly initiate and complete corrective action. §63.1510(i)(1)(iii)		
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and

iv. The owner or operator of a continuous lime injection system must record the lime feeder setting once each day of operation. § 63.1510(i)(2)		
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or

v. An owner or operator who intermittently adds lime to a lime coated fabric filter must obtain approval from the permitting authority for a lime addition monitoring procedure. §63.1510(i)(3)		
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and

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h. Label: Name <input type="checkbox"/> , Charge <input type="checkbox"/> , Flux material <input type="checkbox"/> , Operating Parameters <input type="checkbox"/> , Limits on feed or production §63.1506(b)(1), (2) & (3)		
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i. Label inspected once per month. §63.1510(c)		
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6. SWEAT FURNACE		
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a. Option 1: Maintain temperature \geq temperature established during the performance test. §63.1506(h) Performance Test Date: ___/___/___		
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i. Emissions not in excess of 0.80 ng of D/F TEQ/dscm (3.5×10^{-10} gr/dscf) at 11% O ₂ . §63.1505(f)(2)		
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ii. Maintain temperature > the temperature established during the performance test. §63.1506 (h): _____°C		
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or

b. Option 2: Maintain 3-hour block average >1600° F. §63.1505(f)(1) _____°F and 0.8 second residence time. §63.1505(f)(1) _____ sec.		
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and

c. Controlled by an afterburner.		
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i. Three hour block average temperature at or above limit set by performance test. §63.1506(h)(1)		
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ii. Operated in accordance with OM&M Plan. §63.1506(h)(2)		
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iii. See afterburner table.		
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8. DROSS-ONLY FURNACE		
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a. VE <10% if COM or VE monitoring is chosen as the monitoring option. §63.1505(g)(2)		
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b. Emissions not in excess of 0.15 kg PM/Mg (0.30 lb of PM/ton) of feed/charge. §63.1505(g)(1) Performance Test Date: ___/___/___		
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c. Controlled by fabric filter		
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i. Operate each furnace using dross as the sole feedstock. §63.1506(i)(3)		
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if

ii. Leak bag detection system used to meet monitoring requirement. §63.1506(i)(1)		
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(1) Initiate corrective action within hour of a bag leak detection system alarm and complete the corrective action procedures in accordance with the OM&M plan. §63.1506(i)(1)(i)		
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(2) Operate each fabric filter system such that the bag leak detection system alarm does not sound more than 5% of the operating time during 6-month block reporting period. §63.1506(i)(1)(ii)		
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(3) See Leak bag detection system table		
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if

iii. COMs used to meet monitoring requirement. §63.1506(i)(2)		
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(1) Initiate corrective action within 1-hour of any 6-minute average reading > 5 % and complete the corrective action procedures in accordance with the OM&M plan. §63.1506(i)(2)		
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(2) See continuous opacity monitoring system table.		
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and

d. Record the materials charged to each unit for each operating cycle or time period used in the performance test. §63.1510(l)(1)		
e. Certify compliance with the applicable operational standard for charge materials in §63.1506(i)(3) for each 6-month reporting period. Each certification must contain the information in §63.1516(b)(2)(ii). §63.1510(l)(2)		
f. See feed/charge weight table.		

9. ROTARY DROSS COOLER		
a. Emissions not in excess of 0.09 g PM/dscm (0.04 gr/dscf). §63.1505(h)(1) Performance Test Date: ___/___/___		

if

b. COMs used as a monitoring		
i. Less than than <10 % opacity from any PM control device. §63.1505(h)(2)		
ii. For COM system, initiate corrective action within 1-hour of any 6-minute average reading of 5% or more opacity and complete the corrective action procedures in accordance with the OM&M plan. §63.1506(j)(2)		
iii. See continuous opacity monitoring system table		

if

iv. Bag leak detection system		
(1) Initiate corrective action within one hour of a bag leak detection system alarm and complete the corrective action procedures in accordance with the OM&M plan. §63.1506(j)(1)(i)		
(2) Operate each fabric filter system such that the bag leak detection system alarm does not sound more than 5% of the operating time during a 6-month reporting period. §63.1506(j)(1)(ii)		
(3) See leak detection system table.		

if

10. GROUP 1 FURNACE		
a. Performance Test Date: ___/___/___		
i. Emissions not in excess of 0.20 kg of PM per Mg (0.40 lb of PM per ton) of feed/charge from a group 1 furnace, that is not a melting/holding furnace processing only clean charge, at a SAP facility. §63.1505(i)(1)		
ii. Emissions not in excess of 0.40 kg of PM per Mg (0.80 lb/ton) of feed/charge from a group melting/holding furnace processing only clean charge at a SAP facility. §63.1505(i)(2) & §63.1506(n)(3)		
iii. Emissions not in excess of 15 mg of D/F TEQ per Mg (2.1×10^{-4} gr of D/F TEQ per ton) of feed/charge from a group 1 furnace at a SAP facility that is a major or area source. This limit does not apply if the furnace processes only clean charge. §63.1505(i)(3)		
iv. Emissions not in excess of 0.20 kg of HCl per Mg (0.40 lb/ton) of feed/charge or, if the furnace is equipped with an add-on air pollution control device, 10 % of the uncontrolled HCl emissions, by weight, for a group 1 furnace at a SAP facility that is a major source. §63.1505(i)(4).		
b. $VE \leq 10\%$ for if COM or VE monitoring is chosen as the monitoring option. §63.1505(i)(5)		
c. Label: Name <input type="checkbox"/> , Charge <input type="checkbox"/> , Flux material <input type="checkbox"/> , Operating Parameters <input type="checkbox"/> , Limits on feed or production <input type="checkbox"/> §63.1506(b)(1)(2)&(3)		
d. Label inspected once per month. §63.1510(c)		
e. Sidewall fluxing group 1 furnace must comply with the emission limits for Group 1 furnaces in 63.1505(i)(1)-(4) on the basis of the combined emissions from the sidewall and the hearth limits if metal falls below the top of passage between sidewall and hearth. §63.1505(i)(7)		

f. Controlled by a lime-injected fabric filter.		
i. With a leak detection system.		
(1) Initiate corrective action within one hour of a bag leak detection system alarm. §63.1506(m)(1)(i)		
(2) Complete the corrective action procedures in the OM&M plan. §63.1506(m)(1)(ii)		
(3) Operate each fabric filter system such that the bag leak detection system alarm does not sound more than 5 % of the operating time during a 6-month reporting period. §63.1506(m)(1)(iii)		
(4) See Bag Leak Detection System table		
ii. With a continuous opacity monitoring system.		
(1) Initiate corrective action within 1-hour of any 6-minute average reading of 5 %. §63.1506(m)(2)(i)		
(2) Complete the corrective action procedures in accordance with the OM&M plan. §63.1506(m)(2)(ii)		
(3) See Continuous Opacity Monitoring System Table		
iii. Maintain the 3-hour block average inlet temperature for each fabric filter at or below the average temperature established during the performance test, plus 14 °C (plus 25 °F). §63.1506(m)(3)		
iv. The monitoring system must record the temperature in 15-minute block averages and calculate and record the average temperature for each 3-hour block period. §63.1510(h)(2)(i)		
v. The recorder response range must include zero and 1.5 times the average temperature established according to the requirements in § 63.1512(n). §63.1510(h)(2)(ii)		
vi. The reference method must be a NIST calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Administrator. §63.1510(h)(2)(iii)		
vii. Continuous lime injection system, maintain free-flowing lime in hopper to the feed device at all times and maintain the lime feeder setting at the same level established during the performance test. §63.1506(m)(4)		
either		
(1) Inspect each feed hopper or silo at least once each 8-hr period and record the results. If lime is found not to be free-flowing during any of the 8-hr periods, increase the frequency of inspections to at least once every 4-hr period for the next 3 days. Facility may return to inspections at least once every 8-hr period if corrective action results in no further blockages of lime during the 3-day period. § 63.1510(i)(1)(i)		
or		
(2) Install, operate and maintain a load cell, carrier gas/lime flow indicator, carrier gas pressure drop measurement system or other system to confirm that lime is freeflowing. If lime is found not to be freeflowing, the facility must promptly initiate and complete corrective action. §63.1510(i)(1)(ii)		
or		
(3) Install, operate and maintain a device to monitor the concentration of HCl at the outlet of the fabric filter. If an increase in the concentration of HCl indicates that the lime is not free-flowing, the owner or operator must promptly initiate and complete corrective action. §63.1510(i)(1)(iii)		
and		
(4) Continuous lime injection system must record lime feeder setting once/day of operation. §63.1510(i)(2)		
or		
(5) To intermittently adds lime to a lime coated fabric filter the source must obtain approval from the permitting authority for a lime addition monitoring procedure. §63.1510(i)(3)		
and		
(6) Maintain the total reactive chlorine flux injection rate for each operating cycle or time period used the performance test at or below the average rate established during the performance test. §63.1506(m)(5)		
g. Install, calibrate, operate, and maintain a device to continuously measure and record the weight of gaseous or liquid reactive flux injected to each affected source or emission unit. §63.1510(j)(1)		

i.	The monitoring system must record the weight for each 15-minute block period, during which reactive fluxing occurs, over the same operating cycle or time period used in performance test. §63.1510(j)(1)(i)		
ii.	The accuracy of the weight measurement device must be ±1% of the weight of the reactive component of the flux being measured. §63.1510(j)(1)(ii)		
iii.	See Feed/Charge Weight Table		
h.	Calculate and record the gaseous or liquid reactive flux injection rate (kg/Mg or lb/ton) for each operating cycle or time period used in the performance test using the procedure in §63.1512(o). §63.1510(j)(2)		
i.	Record, for each 15-minute block period during each operating cycle or time period used in the performance test during which reactive fluxing occurs, the time, weight, & type of flux for each addition. §63.1510(j)(3)		
either			
i.	Gaseous or liquid reactive flux other than chlorine. §63.1510(j)(3)(i)		
or			
ii.	Solid reactive flux. §63.1510(j)(3)(ii)		
and			
iii.	Calculate and record the total reactive flux injection rate for each operating cycle or time period used in the performance test using the procedure in §63.1512(o).-§63.1510(j)(4)		
or			
j.	Approval of an alternative method for monitoring and recording the total reactive flux addition rate by the Administrator. §63.1510(j)(5)		
and			
k.	Operate each sidewell furnace such that:		
i.	Maintains molten metal level above the top of the passage between the side-well and hearth during reactive flux injection, unless the hearth is also equipped with an add-on control device. §63.1506(m)(6)(i)		
ii.	Reactive flux is added only in sidewell unless the hearth also is equipped with an add-on control device. §63.1506(m)(6)(ii)		
iii.	Record when the level of molten metal was above the passage between the sidewell hearth during reactive flux injection, unless the furnace hearth was also equipped with an add-on control device. §63.1510(n)(1)		
iv.	Certify compliance with the operational standards in § 63.1506(m)(6)for each 6- month reporting period. Each certification must contain the information in §63.1516(b)(2)(iii). §63.1510(n)(2)		
l.	Without add-on air pollution control devices.		
i.	Maintain the total reactive chlorine flux injection rate for each operating cycle or time period used in the performance test at or below the average rate established during the performance test. §63.1506(n)(1)		
ii.	Operate each furnace in accordance with the work practice/ pollution prevention measures documented in the OM&M plan and within the parameter values or ranges established in the OM&M plan. §63.1506(n)(2)		
iii.	Operate each group 1 melting/holding furnace subject to the emission standards in § 63.1505(i)(2) using only clean charge as the feedstock. §63.1506(n)(3))		
iv.	Submit the site-specific monitoring plan to the applicable permitting authority for review at least 6 months prior to the compliance date. §63.1510(o)(1)(i)		
v.	Certify of compliance with the applicable operational standard for clean charge materials in § 63.1506(n)(3) for each 6-month reporting period. ?163.1510(o)(4)(ii)		
vi.	Scrap inspection program		
	(1) A scrap inspector training program; §63.1510(p)(2)		
	(2) An established correlation between visual inspection and physical measurement of oil and coatings content of scrap samples; §63.1510(p)(3)		

(3) Periodic physical measurements of oil and coatings content of randomly selected scrap samples and comparison with visual inspection results; §63.1510(p)(4)		
(4) A system for assuring that only acceptable scrap is charged to an affected group 1 furnace; and §63.1510(p)(5)		
(5) Recordkeeping requirements to document conformance with plan requirements. §63.1510(p)(6)		
vii. Monitoring of scrap contamination level by a calculation method §63.1510(q)		
(1) Establish procedures for the characterization and documentation of the contaminant level of the scrap prior to the performance test. §63.1510(q)(1)		
(2) Limitations on the furnace feed/charge to scrap of the same composition as that used in the performance test. §63.1510(q)(2)		
(3) Operating, monitoring, recordkeeping, and reporting requirements to ensure that no scrap with a contaminant level higher than that used in the performance test is charged to the furnace. §63.1510(q)(3)		

11. GROUP II FURNACE		
a. Operate each furnace using only clean charge as the feedstock. §63.1506(o)(1)		
b. Operate each furnace using no reactive flux. §63.1506(o)(2)		
c. Record a description of the materials charged to each furnace. §63.1510(r)(1)		
d. Submit a certification of compliance each 6-months with the applicable operational standard for charge materials in § 63.1506(o) for each month reporting period. §63.1510(r)(2)		
e. Label: Name <input type="checkbox"/> , Charge <input type="checkbox"/> , Flux material <input type="checkbox"/> , Operating Parameters <input type="checkbox"/> , Limits on feed or production <input type="checkbox"/> , §63.1506(b)(1)(2) & (3)		
i. Inspected label once per month §63.1510(c)		

12. IN-LINE FLUXER Exempt from emission limits if using no reactive flux material §63.1505(j)(3)		
a. Limit for SAPU 0.02 kg of HCl per Mg (0.04 lb of HCl per ton) of feed/charge. §63.1505(j)(1)		
b. Limit for SAPU 0.005 kg of PM per Mg (0.01 lb PM per ton) of feed/charge. §63.1505(j)(2)		
c. Must not discharge or cause to be discharged to the atmosphere VE in excess of 10 % opacity from any PM add-on air pollution control device used to control emissions from the in-line fluxer, if COM is chosen as the monitoring option. §63.1505(j)(4)		
d. Limits on feed or production: § 63.1505(j)(5))		
e. Label: Name <input type="checkbox"/> , Charge <input type="checkbox"/> , Flux material <input type="checkbox"/> , Operating Parameters <input type="checkbox"/> , Limits on feed or production <input type="checkbox"/> , §63.1506(b)(1)(2) & (3)		
i. Label inspected once per month. §63.1510(c)		

if

f. Leak bag detection system		
g. Operate each fabric filter system such that the bag leak detection system alarm does not sound more than 5 % of the operating time during a 6-month block reporting period. §63.1506(k)(1)(ii)		
i. Operate a bag leak detection system for each exhaust stack of a fabric filter. §63.1510(f)(i)		
ii. Each triboelectric bag leak detection system must be installed, calibrated, operated, and maintained according to the “Fabric Filter Bag Leak Detection Guidance,” §63.1510(f)(ii)		
iii. Other bag leak detection systems must be installed, operated, calibrated, and maintained in a manner consistent with the manufacturer’s written specifications and recommendations. §63.1510(f)(ii)		

iv. Certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 milligrams per actual cubic meter or less. §63.1510(f)(iii)		
h. See Leak bag detection system table		
if		
i. Monitored by a COMs		
i. Initiate corrective action for a COM system, within 1-hour of any 6-minute average reading of 5 % or more opacity and complete the corrective action procedures in accordance with the OM&M plan. §63.1506(k)(2)		
ii. See continuous opacity monitoring system table.		
if		
j. For a continuous injection system, maintain free-flowing lime in the hopper to the feed device at all times and maintain the lime feeder setting at the same level established during the performance test. §63.1506(k)(3)		
k. Maintain the total reactive chlorine flux injection rate for each operating cycle or time period used in the performance test at or below the average rate established during the performance test. §63.1506(k)(4)		
l. See Feed/Charge weight Table		
and		
m. Certify compliance with the operational standard for no reactive flux materials in §63.1506(l) for each 6-month reporting period. Each certification must contain the information in §63.1516(b)(2)(vi). §63.1510(m)		
n. Performance Test Date: ___/___/___		
13. IN-LINE FLUXER. Using no reactive flux		
a. Certify of compliance with the operational standard for no reactive flux materials in § 63.1506(l) for each 6-month reporting period. Each certification must contain the information in § 63.1516(b)(2)(vi).		
14. SECONDARY ALUMINUM PROCESSING UNIT (SAPU).		
a. Limit for PM: _____ kg PM/Mg charge. §63.1505(k)(1)		
b. Limit for HCl: _____ kg HCl/Mg charge. §63.1505(k)(2)		
c. Limit for D/F: _____ kg D/F TEQ/Mg charge. §63.1505(k)(3)		
d. Approval of OM&M Plan §63.1506(a)(2) PM, HCl, D/F: ___/___/___		
i. Identify each emission unit. §63.1510(s)(i)		
ii. Specify the control technology or pollution prevention measure to be used for each emission unit and the date of its installation or application. §63.1510(s)(1)(ii)		
iii. Calculate the emission limit for each secondary aluminum processing unit and performance test results demonstrating compliance. §63.1510(s)(1)(iii) & §63.1510(t)		
iv. Data demonstrating compliance for each emission unit with all applicable design, equipment, work practice or operational standards of this subpart; §63.1510(s)(1)(iv)		
v. Monitoring the requirements applicable to each emission unit in a secondary aluminum processing unit and the monitoring procedures for daily. §63.1510(s)(1)(v)		
15. CAPTURE/COLLECTION SYSTEMS.		
a. Capture system to meet ACGIH. §63.1506(c)(1), To access this document see §63.1502		
b. Vent through closed system except for dilution air to control baghouse temperature. §63.1506(c)(2)		
c. Operate according to OM&M plan. §63.1506(c)(3)		

d. Inspect and record the results of once each calendar year. §63.1510(d)(2)		
14. FEED/CHARGE WEIGHT.		
a. Weight measurements for each operating cycle or time period used in the performance test; and §63.1506(d)(1)		
b. Operate each weight measurement system or other weight determination procedure in accordance with the OM & M plan §63.1506(d)(2) or §63.1506(d)(3)(i)		
c. Install, calibrate, operate, and maintain a device to measure and record the total weight of feed/charge to, or the aluminum production from, the affected source or emission unit over the same operating cycle or time period used in the performance test. §63.1510(e)		
d. The accuracy of weight measurement device or procedure must be $\pm 1\%$ of the weight being measured or an approved alternative method. §63.1510(e)(1)		
e. Verify calibration of the weight measurement device in accordance with schedule specified by the manufacturer, or if no calibration schedule is specified, at least once every 6 mo. §63.1510(e)(2)		
15. CORRECTIVE ACTION		
a. Restore operation of the affected source or emission unit (including the process or control device) to its normal or usual mode of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. §63.1506(p)		
16. PERFORMANCE TEST DATA		
a. Conduct each test while the affected source or emission unit is operating at the highest production level with charge materials representative of the range of materials processed by the unit and, if applicable, at the highest reactive fluxing rate. §63.1511(b)(1)		
b. Batch process must consist of three separate runs; pollutant sampling for each run must be conducted over the entire process operating cycle. §63.1511(b)(3)		
17. BAG LEAK DETECTION SYSTEM		
a. Operate a bag leak detection system for each exhaust stack of a fabric filter. §63.1510(f)(i)		
b. Each triboelectric bag leak detection system must be installed, calibrated, operated, and maintained according to the “Fabric Filter Bag Leak Detection Guidance,” or §63.1510(f)(ii)		
c. Other bag leak detection systems must be installed, operated, calibrated, and maintained in a manner consistent with the manufacturer’s written specifications and recommendations. §63.1510(f)(ii)		
d. Certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 milligrams per actual cubic meter or less. §63.1510(f)(iii)		
e. The bag leak detection system sensor must provide output of relative or absolute PM loadings. §63.1510(f)(iv)		
f. The bag leak detection system must be equipped with a device to continuously record the output signal from the sensor. §63.1510(f)(v)		
g. The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative PM emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel. §63.1510(f)(vi)		
h. For positive pressure fabric filter systems, a bag leak detection system must be installed in each baghouse compartment or cell. For negative pressure or induced air fabric filters, the bag leak detector must be installed downstream of the fabric filter. §63.1510(f)(vii)		
i. Where multiple detectors are required, the system’s instrumentation and alarm may be shared among detectors. §63.1510(f)(viii)		

j.	The baseline output must be established by adjusting the range and the averaging period of the device and establishing the alarm set points and the alarm delay time. §63.1510(f)(ix)		
k.	After initial adjustment of the system, the facility must not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time except as detailed in OM&M plan. In no case may the sensitivity be increased by more than 100% or decreased more than 50% over a 365-day period unless such adjustment follows a complete fabric filter inspection which demonstrates that the fabric filter is in good operating condition. §63.1510(f)(x)		

18. CONTINUOUS OPACITY MONITORING SYSTEM			
a.	Meet the design and installation requirements of Performance Specification 1 in appendix B to 40 CFR part 60. §63.1510(f)(2)(ii)		

19. AFTERBURNER			
a.	The facility must install, calibrate, maintain, and operate a device to continuously monitor and record the operating temperature of the afterburner per the requirements in 40 CFR 60, subpart A. §63.1510(g)(1)		
b.	The facility must conduct an inspection of each afterburner at least once a year and record the results. §63.1510(g)(3)		
i.	Inspection of all burners, pilot assemblies, and pilot sensing devices for proper operation and clean pilot sensor §63.1510(g)(3)(i)		
ii.	Inspection for proper adjustment of combustion air. §63.1510(g)(3)(ii)		
iii.	Inspection of internal structures (e.g., baffles) to ensure structural integrity. §63.1510(g)(3)(iii)		
iv.	Inspection of dampers, fans, and blowers for proper operation. §63.1510(g)(3)(iv)		
v.	Inspection for proper sealing. §63.1510(g)(3)(v)		
vi.	Inspection of motors for proper operation. §63.1510(g)(3)(vi)		
vii.	Inspection of combustion chamber refractory lining and clean and replace lining as necessary. §63.1510(g)(3)(vii)		
viii.	Inspection of afterburner shell for corrosion and/or hot spots. §63.1510(g)(3)(viii)		
ix.	Documentation, for the burn cycle that follows the inspection, that the afterburner is operating properly and any necessary adjustments have been made. §63.1510(g)(3)(ix)		
x.	Verification that the equipment is maintained in good operating condition. §63.1510(g)(3)(x)		
xi.	Following an equipment inspection, all necessary repairs must be completed in accordance with the requirements of the OM&M plan. §63.1510(g)(3)(xi)		

20. THE TEMPERATURE MONITORING DEVICE			
a.	The temperature monitoring device must be installed at the exit of the combustion zone of each afterburner. §63.1510(g)(2)(i)		
b.	The monitoring system must record the temperature in 15-minute block averages and determine and record the average temperature for each 3-hour block period. §63.1510(g)(2)(ii)		
c.	The recorder response range must include zero and 1.5 times the average temperature established according to the requirements in § 63.1512(m). §63.1510(g)(2)(iii)		
d.	The reference method must be a NIST calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Administrator. §63.1510(g)(2)(iv)		

SECONDARY ALUMINUM INSPECTION CHECKLIST
40 CFR 63, Subpart RRR
Area Sources

Facility Name: _____ AIRS ID: _____
Owner/Operator: _____
Personnel Interviewed: _____ Phone #: _____
Mailing Address: _____
City: _____ State: _____ Zip: _____
Inspector: _____

Does the source have any of the following affected facilities:

	Existing	New	Date installed
Thermal chip dryer	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___
Scrap dryer/delacquering kiln/decoating kiln §63.1500(c)(2)	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___
Sweat furnace §63.1500(c)(3)	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___
Secondary aluminum processing unit (SAPU) §63.1500(c)(4)	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___

1. Initial Notification Date _____
2. Compliance Certification Date _____

3. THERMAL CHIP DRYER at a secondary aluminum production facility.	Yes	No
a. Controlled by an afterburner.		
i. Three hour block average temperature at or above limit set by performance test. §63.1506(f)(1)		
ii. Operated in accordance with OM&M Plan. §63.1506(f)(2)		
iii. Use only unpainted chips. §63.1506 (f)(3)		
iv. See afterburner table.		
b. Record the type of materials charged to the unit for each operating cycle or time period used in the performance test. §63.1510(k)(1)		
c. Certify compliance with operational standard for charge materials in §63.1506(f)(3) for each month reporting period. Each certification must contain the information in §63.1516(b)(2)(i)(2).		
d. Performance Test Date: ___/___/___		
e. Emissions not in excess of 2.50 mg of D/F TEQ per Mg (3.5 X 10 ⁻⁵ gr/ton) of feed/charge from a thermal chip dryer. §63.1505(c)(2)		

4. SCRAP DRYER/DELACQUERING KILN/DECOATING KILN at secondary aluminum production facility.	Yes	No
either		
a. Standard Option §63.1505(d) Performance Test Date: ___/___/___		
i. Emissions not in excess of 0.03 kg of THC, as propane, per Mg (0.06 lb of THC, as propane, per ton) of feed/charge. §63.1505(d)(1)(i)		
ii. Emissions not in excess of 0.04 kg of PM per Mg (0.08 lb/ton) of feed/charge. §63.1505(d)(1)(ii)		
iii. Emissions not in excess of 0.25 mg of D/F TEQ per Mg (3.5 X 10 ⁻⁶ gr of D/F TEQ per ton) of feed/ charge. §63.1505(d)(1)(iii)		
iv. Must not discharge or cause to be discharged to the atmosphere VE in excess of 10 % opacity from any PM add-on air pollution control device if a COM is chosen as the monitoring option. §63.1505(d)(2)		

or

b. Alternative emission limit. If a kiln is equipped with an afterburner having a design residence time of at least 1 second and is operated at a temperature of at least 750°C (1400°F) at all times. §63.1505(e) Temp: _____ ° _____ Residence time: _____ Sec		
i. Emissions not in excess of 0.10 kg of THC, as propane, per Mg (0.20 lb of THC, as propane, per ton) of feed/charge. §63.1505(e)(1)(i)		
ii. Emissions in excess of 0.15 kg of PM per Mg (0.30 lb/ton) of feed/charge. §63.1505(e)(1)(ii)		
iii. Emissions not in excess of 5.0 mg of D/F TEQ per Mg (7.0 X 10 ⁻⁵ gr of D/F TEQ per ton) of feed/charge. §63.1505(e)(1)(iii)		
iv. Emissions not in excess of 0.75 kg of HCl per Mg (1.50 lb per ton) of feed/charge. §63.1505(e)(1)(iv)		
v. VE <10% for a major source if COM or VE monitoring is chosen as the monitoring option. §63.1505(e)(2)		
if		
c. Controlled by an afterburner and lime-injected fabric filter. §63.1506(g)(1)		
i. Three hour average temperature at or above limit set by performance test. §63.1506(g)(1)(i)		
ii. The monitoring system must record the temperature in 15-minute block averages and calculate and record the average temperature for each 3-hour block period. §63.1510(h)(2)(i)		
iii. The recorder response range must include zero and 1.5 times the average temperature established according to the requirements in § 63.1512(n). §63.1510(h)(2)(ii)		
iv. The reference method must be a NIST calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Administrator. §63.1510(h)(2)(iii)		
v. Operated in accordance with OM&M Plan §63.1506(g)(1)(ii)		
vi. See afterburner table.		
if		
d. Bag leak detection system. §63.1506(g)(2)		
i. Initiate corrective action within 1-hour of a bag leak detection system alarm and complete the corrective action procedures in accordance with the OM&M plan. §63.1506(g)(2)(i)		
ii. Assure alarm does not sound > 5% of the operating time during a 6-month block reporting period. §63.1506(g)(2)(ii)		
iii. See bag leak detection table.		
if		
e. Continuous opacity monitor §63.1517(b) & §63.10(b)		
i. Record 6 min averages §63.1506(g)(3)		
ii. Initiate corrective action within 1-hour of any 6-minute average reading of 5 % or more opacity accordance with the OM&M plan. §63.1506(g)(3)		
iii. See continuous opacity monitor table.		
if		
f. Fabric filter, maintain the 3-hour block average inlet temperature at or below the average temperature established during the performance test, plus 14 °C. §63.1506(g)(4).		
if		
g. Continuous lime injection device, maintain free-flowing lime in the hopper to the feed device at all times and maintain the lime feeder setting at the same level established during the performance test. §63.1506(g)(5).		
either		

i. Inspecting each feed hopper or silo at least once each 8-hour period and recording the results. If lime is not free-flowing during any 8-hour periods, the owner or operator must increase the frequency of inspections to at least once every 4-hour period for the next 3 days. The owner or operator may return to inspections at least once every 8 hour period if corrective action results in no further blockages of lime during the 3-day period. § 63-1510(i)(1)(i)		
or		
ii. Subject to the approval of the permitting agency, installing, operating and maintaining a load cell, carrier gas/lime flow indicator, carrier gas pressure drop measurement system or other system to confirm that lime is freeflowing. If lime is found not to be freeflowing, the owner or operator must promptly initiate and complete corrective action, §63.1510(i)(1)(ii)		
or		
iii. Subject to the approval of the permitting agency, installing, operating and maintaining a device to monitor the concentration of HCl at the outlet of the fabric filter. If an increase in the concentration of HCl indicates that the lime is not free-flowing, the owner or operator must promptly initiate and complete corrective action. §63.1510(i)(1)(iii)		
and		
iv. The owner or operator of a continuous lime injection system must record the lime feeder setting once each day of operation. § 63.1510(i)(2)		
or		
v. An owner or operator who intermittently adds lime to a lime coated fabric filter must obtain approval from the permitting authority for a lime addition monitoring procedure. §63.1510(i)(3)		
and		
h. Label: Name <input type="checkbox"/> , Charge <input type="checkbox"/> , Flux material <input type="checkbox"/> , Operating Parameters <input type="checkbox"/> , Limits on feed or production <input type="checkbox"/> , §63.1506(b)(1), (2) & (3)		
i. Label inspected once per month. §63.1510(c)		
5. SWEAT FURNACE		
a. Option 1: Maintain temperature \geq temperature established during the performance test. §63.1506(h) Performance Test Date: ___/___/___		
i. Emissions not in excess of 0.80 ng of D/F TEQ/dscm (3.5×10^{-10} gr/dscf) at 11% O ₂ . §63.1505(f)(2)		
ii. Maintain temperature $>$ the temperature established during the performance test. §63.1506 (h): _____°C		
or		
b. Option 2: Maintain 3-hour block average $>1600^{\circ}$ F. §63.1505(f)(1) _____°F and 0.8 second residence time. §63.1505(f)(1) _____ sec.		
and		
c. Controlled by an afterburner.		
i. Three hour block average temperature at or above limit set by performance test. §63.1506(h)(1)		
ii. Operated in accordance with OM&M Plan. §63.1506(h)(2)		
iii. See afterburner table.		
6. SECONDARY ALUMINUM PROCESSING UNIT (SAPU).		
a. Approval of OM&M Plan §63.1506(a)(2) .D/F: ___/___/___		
i. Identify each emission unit. §63.1510(s)(i)		
ii. Specify the control technology or pollution prevention measure to be used for each emission unit and the date of its installation or application. §63.1510(s)(1)(ii)		

iii. Calculate the emission limit for each secondary aluminum processing unit and performance test results demonstrating compliance. §63.1510(s)(1)(iii) & §63.1510(t)		
iv. Data demonstrating compliance for each emission unit with all applicable design, equipment, work practice or operational standards of this subpart; §63.1510(s)(1)(iv)		
v. Monitoring the requirements applicable to each emission unit in a secondary aluminum processing unit and the monitoring procedures for daily. §63.1510(s)(1)(v)		
either		
b. Limit for D/F: _____ kg D/F TEQ/Mg charge. §63.1505(k)(3)		
or		
c. Emissions not in excess of 15 µg of D/F TEQ per Mg (2.1×10^{-4} gr of D/F TEQ per ton) of feed/charge from a group 1 furnace at a secondary aluminum production facility. This limit does not apply if the furnace processes only clean charge; and §63.1505(i)(3) & §63.1505(k)(5)		
if		
d. Emissions are controlled by a lime-injected fabric filter and a bag leak detection system is used to meet the monitoring requirements in § 63.1510, the owner or operator of an in-line fluxer must:		
(1) Initiate corrective action within 1-hour of a bag leak detection system alarm and complete the corrective action procedures in accordance with the OM&M plan. §63.1506(k)(1)(i)		
(2) Operate each fabric filter system such that the bag leak detection system alarm does not sound more than 5 percent of the operating time during a 6-month block reporting period. §63.1506(k)(1)(ii)		
(3) See Bag Leak Detection System Table		
if		
ii. If a continuous opacity monitoring system is used to meet the monitoring requirements in § 63.1510, initiate corrective action within 1 hour of any 6-minute average reading of 5 percent or more opacity and complete the corrective action procedures in accordance with the OM&M plan. §63.1506(k)(2)		
iii. See Continuous Opacity Monitoring System Table		
7. AFTERBURNER		
a. The facility must install, calibrate, maintain, and operate a device to continuously monitor and record the operating temperature of the afterburner per the requirements in 40 CFR 60, subpart A. §63.1510(g)(1)		
b. The facility must conduct an inspection of each afterburner at least once a year and record the results. §63.1510(g)(3)		
i. Inspection of all burners, pilot assemblies, and pilot sensing devices for proper operation and clean pilot sensor §63.1510(g)(3)(i)		
ii. Inspection for proper adjustment of combustion air. §63.1510(g)(3)(ii)		
iii. Inspection of internal structures (e.g., baffles) to ensure structural integrity. §63.1510(g)(3)(iii)		
iv. Inspection of dampers, fans, and blowers for proper operation. §63.1510(g)(3)(iv)		
v. Inspection for proper sealing. §63.1510(g)(3)(v)		
vi. Inspection of motors for proper operation. §63.1510(g)(3)(vi)		
vii. Inspection of combustion chamber refractory lining and clean and replace lining as necessary. §63.1510(g)(3)(vii)		
viii. Inspection of afterburner shell for corrosion and/or hot spots. §63.1510(g)(3)(viii)		
ix. Documentation, for the burn cycle that follows the inspection, that the afterburner is operating properly and any necessary adjustments have been made. §63.1510(g)(3)(ix)		
x. Verification that the equipment is maintained in good operating condition. §63.1510(g)(3)(x)		

xi. Following an equipment inspection, all necessary repairs must be completed in accordance with the requirements of the OM&M plan. §63.1510(g)(3)(xi)		
8. CAPTURE/COLLECTION SYSTEMS.		
a. Capture system to meet ACGIH. §63.1506(c)(1), To access this document see §63.1502		
b. Vent through closed system except for dilution air to control baghouse temperature. §63.1506(c)(2)		
c. Operate according to OM&M plan. §63.1506(c)(3)		
d. Inspect and record the results of once each calendar year. §63.1510(d)(2)		
9. BAG LEAK DETECTION SYSTEM		
a. Operate a bag leak detection system for each exhaust stack of a fabric filter. §63.1510(f)(i)		
b. Each triboelectric bag leak detection system must be installed, calibrated, operated, and maintained according to the “Fabric Filter Bag Leak Detection Guidance,” or §63.1510(f)(ii)		
c. Other bag leak detection systems must be installed, operated, calibrated, and maintained in a manner consistent with the manufacturer’s written specifications and recommendations. §63.1510(f)(ii)		
d. Certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 milligrams per actual cubic meter or less. §63.1510(f)(iii)		
e. The bag leak detection system sensor must provide output of relative or absolute PM loadings. §63.1510(f)(iv)		
f. The bag leak detection system must be equipped with a device to continuously record the output signal from the sensor. §63.1510(f)(v)		
g. The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative PM emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel. §63.1510(f)(vi)		
h. For positive pressure fabric filter systems, a bag leak detection system must be installed in each baghouse compartment or cell. For negative pressure or induced air fabric filters, the bag leak detector must be installed downstream of the fabric filter. §63.1510(f)(vii)		
i. Where multiple detectors are required, the system’s instrumentation and alarm may be shared among detectors. §63.1510(f)(viii)		
j. The baseline output must be established by adjusting the range and the averaging period of the device and establishing the alarm set points and the alarm delay time. §63.1510(f)(ix)		
k. After initial adjustment of the system, the facility must not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time except as detailed in OM&M plan. In no case may the sensitivity be increased by more than 100% or decreased more than 50% over a 365-day period unless such adjustment follows a complete fabric filter inspection which demonstrates that the fabric filter is in good operating condition. §63.1510(f)(x)		
10. CONTINUOUS OPACITY MONITORING SYSTEM		
a. Meet the design and installation requirements of Performance Specification 1 in appendix B to 40 CFR part 60. §63.1510(f)(2)(ii)		